PETROVSKIY, V.Y., dotsent

Mutual relation of some factors of environment and the functions of organism. Nek.filos.vop.med.i est. no.2:356-362 160. (MIKA 15:7)

l. Kafedra fizicheskogo vospitaniya i fizicheskoy kul'tury Kiyevskogo meditsinskogo instituta imeni Bogomol'tsa. (BIOLOGY) (PHYSICAL THERAPY)

PETROVSKIY, V.V. Symusiae as forms of plant coexistence. Bot. zhur. 46 nc.ll: 1615-1626 N '61. 1. Botanicheskiy institut imeni V.L. Komarova AN SSCR, Leningrad. (Plant communities)

KOTOVA, G.N.; PETROVSKIY, V.V.; SMIRNOV, D.I.

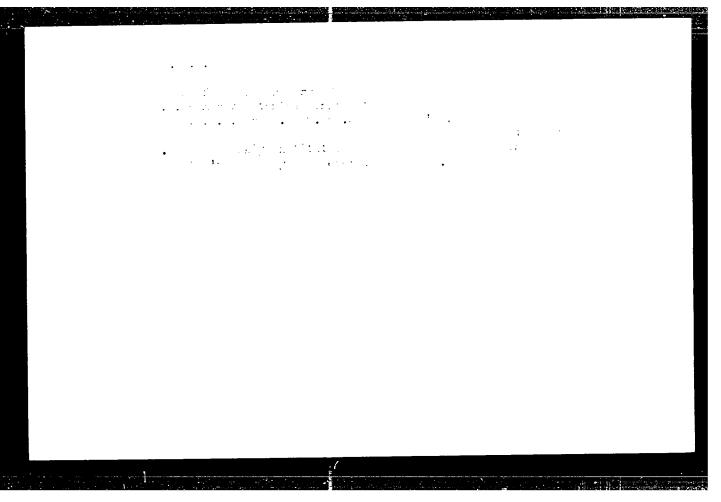
Effect of various factors on venous tone. Fiziol.zhur. 47 no.2:

237-246 F '61. (MIRA 14:5)

1. From the Normal Physiology Chair, Bashkirian Medical Institute,

(VEINS)

Ufa.



PETROVSKIY, Vladimir Viktorovich; POLEZHAYEV, Ye.F., red.; ZUYEVA, E.K., tekhm. red.

[Role of the lymphatic vessels in blood circulation] O roli limfaticheskikh sosudov v krovoobrashchenii. Yoskva, Gos. izd-vo med. litry Medgiz, 1960. 149 p. (MIRA 14:7)

(BLOOD—CIRCULATION) (LYMPHATICS)

PETROVSKIY, V.V., kand.tekhn.nauk; VASANOVA, L.K., insh.; VERMER,
P.F., insh.

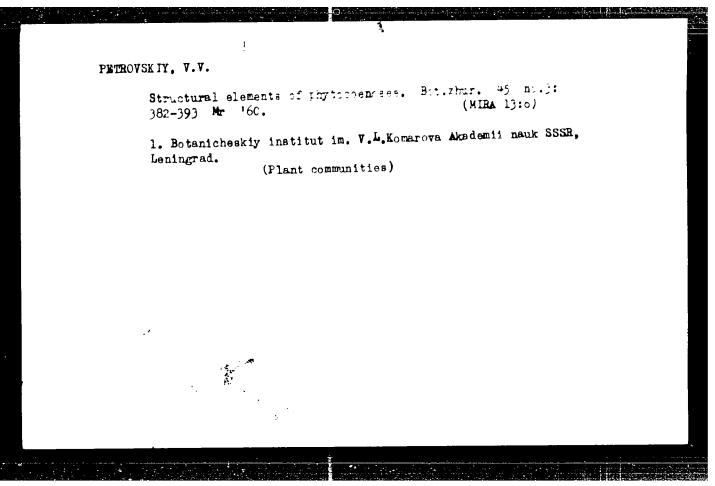
Use of jalousie ash traps in the fuel bed burning of
high ash content coal. Blek.sta. 31 no.5:79-81
My '60. (MIRA 13:8)

(Ash disposal) (Furnaces)

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PETROVSKIY, V.V., inzh.

Tie plugs and spike flates. Pro . jut.zhez. - nc.0:32-33 Je (MIRA 15:0)

(Railrosis--Ties;
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PETROVSKIY, V.V.

Structure of plant associations in the polygonal string bogs of the lower Lena Valley. Bot.zhur. 44 no.10:1500-1507 0 159.

(NIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova, Akademii nauk SSSR, Leningrad.

(Lena Valley--Swamps)

Federicality, i. W.: Species into the (cies) -- mile responding the control of the city of the control of the city of the city

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ARRANOV, I.V.; BALHTOV, S.G.; GORSHKOV, D.S.; KRASNOGOROV, G.A.

PETROVSKIY, V.V.

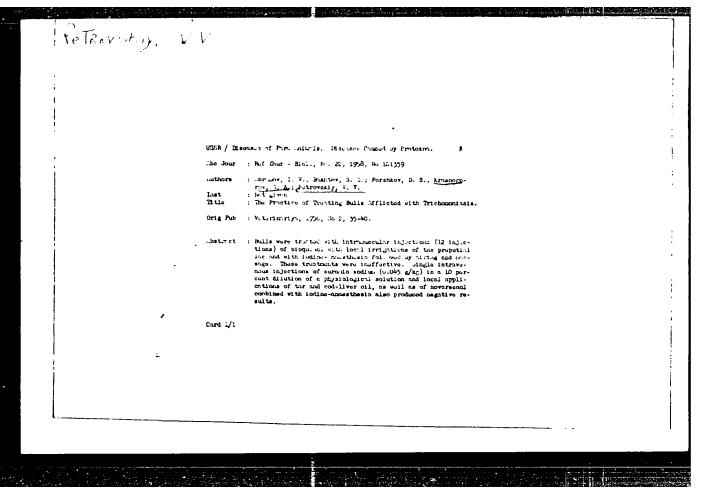
Treating trichomoniasis in bulls [with summary in English].

Veterinariia 35 no.2:35-40 F '58.

1.Vsesouznyy institut eksperimental'noy veterinarii (for Abramov, Petrovskiy) 2.Moskovskaya veterinarnaya akademiya (Bakhtov).

Petrovskiy) 2.Moskovskaya veterinarnaya akademiya (Bakhtov).

(Trichomoniasis) (Bulls--Diseases and pests)
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The first of the Report of the state of the

5(1)
ATTHOR: Petrovskiy, Yu. V., Condidate of Technical Vision

TITLE: Foreign Paterts (Inostrunnye, stenty)
PERIODICAL: Kislorod, 1959, Nr. 6, pp. 25 - 27 ("SCR)

ABSTRACT: This is a report concerning an Envision (Nr. 760876) and two figures.

Card 1/1

ATTICLE Programmer of the transportation of

Ful at shorts PETROVIKIY, VV

Steam Engines - M

3665. OrbRATION OF IM ACT rULVERILZE ON BROWN COALS.
Petrovskii, V.V. Zaets, V.M. and Shalaev, N.B. (Za. Ekon. Topliva (Fuel Econ.) June 1952, 25-28. An illustrated description and test figures are given for a plant used with steam or hot water boilers consuming 1.5 to 2 tons of brown coal per hour. (L)

ZAYETS, Vladimir Hikolayevich; PETROVSKII, Vasiliy Vladimirovich; RYSAKOV, Bikolay Fedorovich; DEREVYLENYEH, B.P., redaktor; LUCHKO, Yu.V., redaktor; KOVALEHKO, H.I., tekhnicheskiy redaktor.

[Boiler equipment] Kotel'nye ustanovki. Sverdlovsk, Gos., nauchnotekhn, isd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskee otd-nie, 1955, 296 p.

(Boilers)

(Boilers)

Bacteriological diagnosis of trichomoniasis in cattle, Veterinariia 34 no.5:81-83 My '57. (MIRA 10:6) 1. Vescoyusnyy institut eksperimental'noy veterinarii. (Trichomonas) (Bacteriology--Culture media) (Cattle--Diseases and pests)

PETFOVSKIY, V. V.

Kochegar perovogo kotla. Sverdlovsk, Metallurgizdat, 1942. 118,(2) p. illus. (V pomoshchirabochim massovykh professii)

Bibliography: p. 110.

Steam-boiler stoker

DLC: TJ289.P4

SC: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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Improving the design of wooden care taxes. Lit. profix. no.f = Je 163. (MIRA 16 7)
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Meter for briquet production. Torf. prom. 30 nc.5:30-31 My '63.

(Richard).

1. Orekhovo-Zayevskiy torfobriketnyy zavod. (Briquets (Fuel))
(Counting devices)

Checking to prevent crumbling of ment briquettes. Torf.mrom. 15 no.2:23-24 '58.

1. Orekhovskiy torfobriketnyy zavod.

(Peat)

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PETROVSKIY, Ye.Ye.,

Bending tests of peat briquets. Torf.prom.32 no.7:22-24 '55.

(MIRA 9:1)

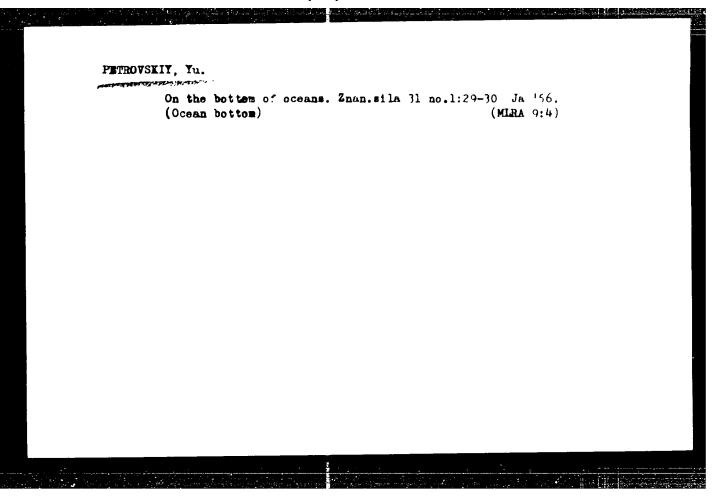
1.Oreknovskiy torfobriketnyy zavod.

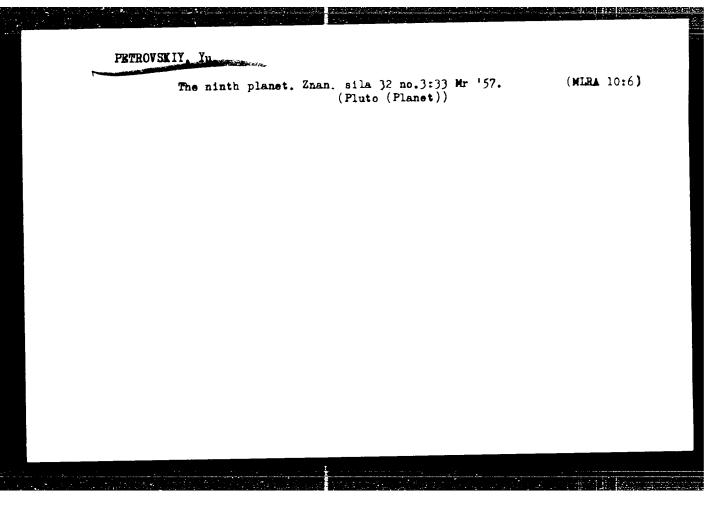
(Briquets (Fuel)--Testing) (Peat--Testing)
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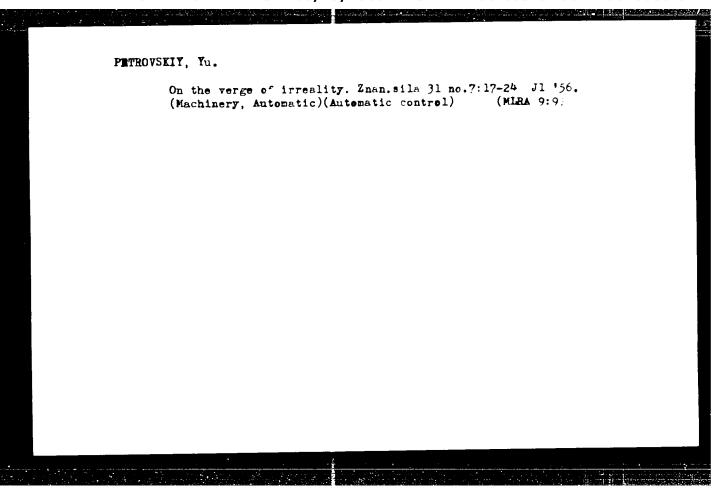
.1)

Simple marrow-band filter. Radio me.5:64 My 156. (MIRA 7:7)

(Radio filters)







Taming the dragon. Znan.sila Vol.31, no.6:7-10 Je '56. (MLRA 9:8) (Tellow River--Regulation)

SUBJECT: USA and USSR/Electronics

4-5-2/17

AUTHOR:

Petrovskiy, Yu.

TITLE:

New "Professions" for Electronic Machines (Novyye "professii"

elektronnykh mashin)

PERIOLICAL:

Znaniya - Sila, May 1957, #5, pp 6-10 (USSR)

ABSTRACT:

The article deals in a very general manner with industrial and military application of electronic devices, such as radar, electronic computers and various other automatic electronic control instruments. Inventions made in the USA, Great Britain trol instruments. Inventions made in the USA, Great Britain and France are described, e.g. US radar system, automatic pilots, automatic operation of sulfuric acid and dry ice plants, automatic production of napalm, etc. One chapter deals with a matic production of napalm, etc. One chapter deals with a "postal computing machine station in Prague" and in another chapter the application of electronic computing machines in the CSR sugar industry is mentioned. Further, an electronic device of the Bell Telephone Company is mentioned, the "Audrey", which of the Bell Telephone Company is mentioned, the "Audrey", which into computing machines. The last chapter deals with an electronic devices to be used for composing music which was designed

Card 1/2

by a French company.

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PETROVSKIY, Yu,

Sev "professions" for electronic machines. Znan. sila 32 no.5:
6-10 My '57.

(Blectronic countril)

(Blectronic cannolating machines)

(Electronic apparatus and appliances)
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ZENKOVICH, V., prof. doktor geogr. nauk; LAGUNOVA, I.; FETROVSKIY. Yu.
zhurnalist; VERD'YE, Zhan; PETROV, S., inzh.; NAUMOV, S., nauchnyy
sotrudnik; IOFFE, V., inzh.; DROZDOV, V., inzh.

People of new specialties. Znan. sils 32 no.11:32-34 N '57.

(MIRA 10:11)

1. Direktor Instituta rentgenologii i radiologii Ministerstva zdravookhraneniya (for Lagunova)

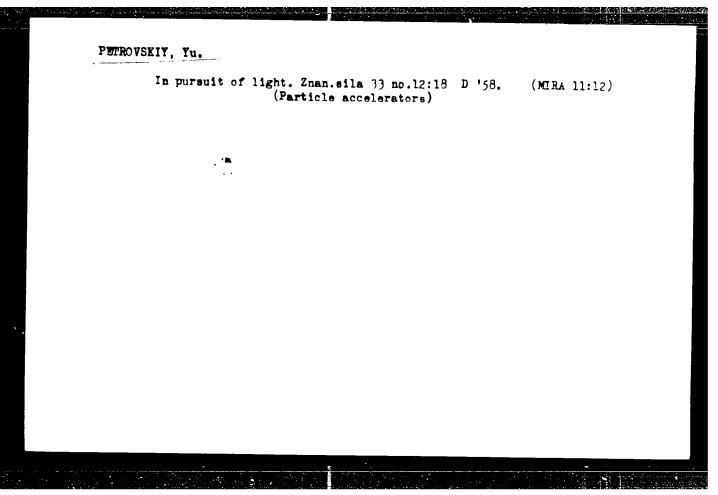
(Science)

PETROVSKIY, Yu.

First artificial language. Znan.-sila 38 no.2:18-19 F '63.

(MIRA 16:3)

(Languages, Artificial)



AUTHOR:

Petrovskiy, Yu.

4-10-33/47

TITLE:

The River of the Electric Dragon (Reka elektricheskogo

drakona)

PERIODICAL: Znaniye - Sila, 1957, # 10, FP 24 - 27 (U.Sk)

ABSTRACT:

An agreement was concluded between the weademy of Sciences of the Soviet Union and the Chinese People's Republic in 1956 relating to the development of the amur giver Basin. In summer of 1956, geographers, geologists, botanists, 200logists, soil experts, geomorphologists, hydrologists, power experts and transport specialists, proceeded with the investigation of the region. These researches were conducted through the winter. As electricity is the main factor of industry, the expeditions tried first to investigate the power resources of the Amur diver Basin. A group of specialists led by S. Klopov, Doctor of Technical Sciences and Professor Feng Chun-Yun, covered a distance over 5,000 km up the Amur and Argun', choosing sites for the construction of water reservoirs, dams, and hydro-electric plants. In the Amur border region, five sites, extremely suitable for the construction of hydro-electric plants, were found. Hants

Card 1/4

CIA-RDP86-00513R001240620006-0" APPROVED FOR RELEASE: 06/15/2000

The River of the Electric bragon

4-10-33/47

of about one million kilowatts will be constructed with dama of 35 - 70 meters. In the Argun' region, 16 sites were found. Similar results were obtained in the Ussur, Mulen and Suyfen river areas. Academician V. Nemchinov, considers that hydro-electric plants must first be constructed near Zey and Dzhalinda. These towns are only 400 km from the South-Yakutsk iron ore and coal mines and 500 km from the nonferrous metal and iron layers in the Chitinsk district. The industrial exploitation of these basins is covered by the sixth Five-Year-Flan directives. The great Siberian route (put') will be electrified from Vladivostok to Irkutsk. These two electric power plants will supply the whole north-eastern region of China - i.e. the An'shyan metallurgy, the Mukden machine building and textile industry, the Fushun coal industry, the Kharbin and Tsitsikar power enterprises. The transmission of d.c. current would also ensure the supply of Feking. The abundance of cheap energy will cause a radical reorganization in industry; the replacement of the usual Martin and converter steel by high quality electric steel, and the organization of a new chemical industry on the basis of energy, which cannot now be realized through the expensive electro-energy of thermal

Card 2/4

4-10-33/47

The kiver of the Electric Dragon

plants. All these electric plants will te united into a general, national network.

Geologists, mineralogists and other scientists investigated soil resources. They discovered ores with an iron content of soil resources. They discovered ores with an iron content of over 60%, besides coal, limestone, fluorspar, asbestos, over 60%, besides coal, limestone, tin, zinc, and molybdenum and manganese. Copper, magnesium, tin, zinc, and lead were already discovered. Haw material for the chemical lead were already discovered. Haw material for the chemical industry were also found, as well as timber, cement and marble. The existence of petroleum layers is very probable. The fertilizing, tility of the soil ensures rich harvests without fertilizing, while irrigation will create proper conditions for rice cultivation. There are also excellent conditions for cattle breeding.

Navigation on the Amur is rather difficult because of rapids, and because to the north the river spreads over a rapids, and dividing into many arms, which flow into the Amur large plain, dividing into many arms, which flow into the Amur firth, and then into the Okhotsk Sea. Projects have been elaborated to dredge channels, and to direct the river towards another outlet. There are three projects. The first of them provides for the digging of 15 kms of canals between a number of lakes situated between the Amur and the fatar Sound to connect the river with the sea. The second project is to

Card 3/4

The River of the Electric Dragon

4-10-41/47

Straighten the winding of the river near Knalardvak. A Chinese scientist worked out the third project which is to use the Sungari river, one of the Amur affluents, as the main entrance channel. This gives access to important towns such as Kharbin, Girin, Mukden. This, however, is only one part of the project. It appears possible to cut a straight water route between the Yellow Sea and the Amur. The connection of the Amur and the Nonni river by a channel would open a straight route to the south. This project would create a direct connection between the upper and central Amur and the most important Chinese industrial centers. As a result of those three projects the Amur would flow into three seas in the Okhotsk, the Japan and the Yellow Sea.

There are 3 sketches and 1 map.

AVAILABLE:

Library of Congress

Card 4/4

PETROVSKIY, Yu.A.; SERDYUK, Ye.B.; SKAKUN, N.P.; TURKO, I.P.

Liver function in experimental vitamin B₁ deficiency. Vopr.
fisiol. no.8:123-127 '54. (MIRA 14:1)

1. L'vevskiy meditsinskiy institut.
(VITAMIN B₁ DEFICIENCY, experimental,
liver funct. tests)
(LIVER FUNCTION TESTS, in various diseases,
exper. vitamin B₁ defic.)

FQUIPMENT and mechanisms for manufacturing facing tile by

7. Ripovskiy eksperimentalin -oso od voteliskiy zavod Gonjedsrstvemnogo nauchmo-issledovoteliskogo orottuda strojteli-nykh materiolov i izdeliy, Kivov.

PETROVSKIY, Yu.l., inzr.; SHLEVIN, D.N., inzh.

Froductira line of mosaic facing tiler with a carpet effort.

Ster. 1 ker. 21 m.10:19-23 C '64.

[Mira lend.]

1. Kryevskiy eksperimental no-issledovatel skiy zavod Norro-issledovatel ckwro instituta streitel nykh materialov in respectively.

L 32656-66 EWT(1)/FCC GW

ACC NR: AT6017320

SOURCE CODE: UR/2546/65/000/143/0069/0090

AUTHOR: Petrovskiy, Yu. S.

ORG: none

TITLE: Analysis by means of streamlines of maps of the tropical zone

SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy, no. 143, 1965. Stroyeniye troposfery I stratosfery i vzaimosvyaz' tsirkulyatsii Severnogo i Yuzhnogo Polushariy (Structure of the troposphere and stratosphere and interrelation of the circulations of the Northern and Southern Hemispheres). 69-90

TOPIC TAGS: weather forecasting, streamline, weather map

ABSTRACT: A study was made of the relationship between winds and the pressure field in the tropics. Isobaric analysis, difficult in the tropics, is unreliable for predicting circulation. Analysis of the few surface maps for the tropical zone by means of streamline construction indicates that this method has possibilities. It is not yet advisable to reject isobaric analysis, however, because this aids in drawing streamlines. To be of use, the analyses of the pressure field must be made more carefully, giving proper consideration to small pressure gradients, the daily behavior of pressure, the effect of local conditions, and the possibility of antitryptic wind. Analysis of surface maps for the tropical zone by constructing streamtryptic wind. Analysis of surface maps for the tropical zone by constructing stream lines, with concomitant isobaric analysis, requires additional time, and for this

Card 1/2

L 32656-66

ACC NR: AT6017320

)

reason its use in everyday work in the equatorial zone is apparently too laborious. It seems advisable now to restrict the work to the most interesting localities of a particular region, giving special attention to inertial wind (when the wind moves counter to the gradient or is inclined in a direction not proper for the hemisphere), to well-defined antitryptic wind, and also to tropical cyclones. Analysis of upperair maps by construction of streamlines has no advantage over isobaric analysis because of the present scarcity of data on wind and because construction of streamlines rests on isobaric contours. As in other analyses, the effect of Eulerian winds should be considered. Orig. art. has: 7 figures and 3 tables.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 011/ OTH REF: 004

Cord 2/2 Buse

Air currents that the solution and air expresses in themselves in 1943 has Metern in pidrol. no.1:1945 that is the solution of the control of

AP7001154 (A,N) ACC NR: SOURCE CODE: UR/0439/66/045/006/0830/0835 Arzamasov, I. T.; Merkusheva, I. V.; Petrovskiy, Yu. T.; AUTHOR: Dyl'ko, N. I. ORG: Division of Zoology and Parasitology, Academy of Sciences, Belorussian SSR, Minsk (Otdel zoologii i parazitologii Akademii nauk Belo-TITLE: Parasites of squirrels in Belorussia SOURCE: Zoologicheskiy zhurnal, v. 45, no. 6, 1966, 830-835 TOPIC TAGS: zeology, parasitology, parasite, arthropod, helminth, ABSTRACT: Data on parasites of the grey squirrel were collected in the Belorussian SSR between 1963 and 1964. The specificity, distribution, and dependence of 46 parasite species on the living conditions of the host were analyzed. In all, 39 arthropod, 3 helminth, 3 protozoan, and 1 rickettsial species were found in arboreal squirrels, while in ground squirrels and burrowing squirrels 14 arthropod, 6 helminth. l rickettsial, and l microbial parasite species were found. SUB CODE: 06/ SUBM DATE: [WA-50; CBE No. none/ ORIG REF: 016/ OTH REP: Card UDC: 591.69-932.22(476)

PETROVSKIY, Yu.T. [Piatrouski, IU.T.]

Distribution of the suslik Citellus suslice Güld, in White Russia and the history of the establishment of its rang. Vestsi AN BSSR Ser. biial. nav. no.1:119-122 '58. (MIAA 11:5) (White Russia--Susliks)

PETROVSKIY, Yu.T.

Studying the ciurnal activity cycle in the suslik Citellus suslicus Culd. by the use of actograph. Zool.zhur. 36 no.9: 1413-1418 S '59. (MIRA 13:1)

1. Kafedra zoologii Belorusskogo gosudarstvennogo universiteta (Minsk).
(Susliks)

PETROVSKIY, Yu.T.

Ecological pecularities of the suslik Citellus suslicus Guld in White Russia. Zool. zhur. 40 no.5:736-748 61. (MIRA 14:5)

1. Department of Zoology, State University of Byelorussia, Minsk. (White Russia—Susliks)

PETROVSKIY, YU. V.

USSR, Chemistry - Chemical engineering.

FD-979

Card 1/1

Fub.50 - 11/24

Author

: Fastovskiy, V. G., Prof, Dr Tech Sci; Petrovskiy, Yu. V.

Title

: Study of columns containing a multi-layer net filling

Periodical: Khim. prom., No 6, 357-364 (37-44), Sep 1954

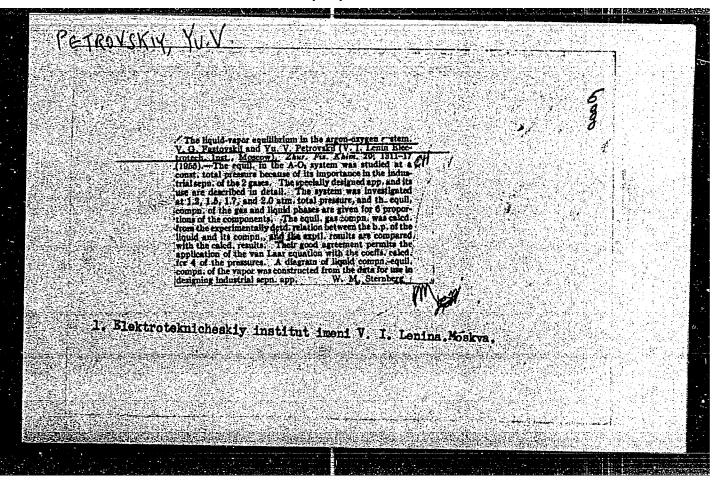
Abstract

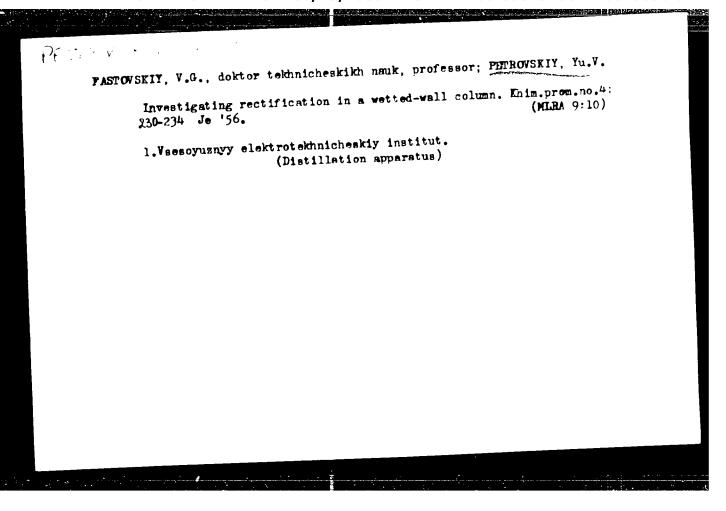
: Investigated experimentally the performance with respect to area tranfer and heat transfer of columns containing a net filling consisting of 1-7 layers. Compared the performance data with those obtained on columns containing other types of fillings (cerasic rings, saddle-sl:a,elements). Found that by using a five-layer net filling an optimum reduction of the dimensions of the column is obtained. Because of the superior performance obtained with this type of filling, recommend its use in industrial distillation and absorption columns. Twelve reference.

5 USSR, all since 1940. Six figures, 9 graphs, 6 tables.

Institution:

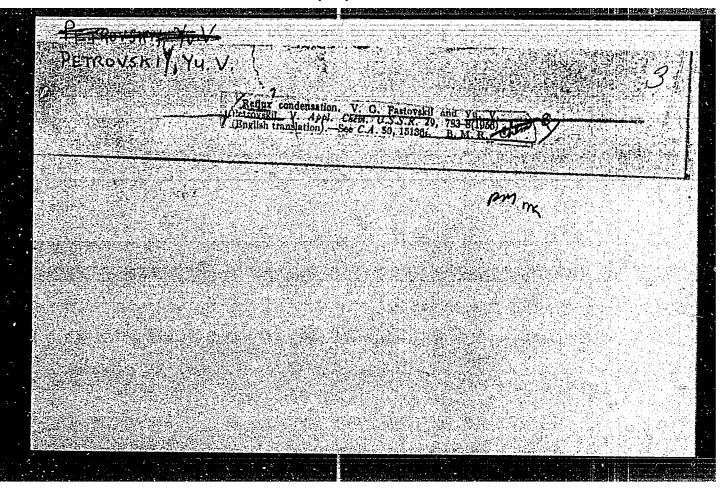
Submitted





Experimental study of counterflow condensation. Zhur.prikl.khim.
29 no.5:723-730 My '56.
(Distillation, Fractional)

(MIRA 9:8)



PETROISKIG

USSR/ Chemistry - Physical chemistry

Card 1/1 Pub. 147 - 10/35

Pastovskiy, V. G., and Petrovskiy, Yu. V. Authors

Title Investigation of liquid-vapor equilibrium in an argon-mitrogen system.

Part 2

1 Zhur. fiz. khim. 30/1, 76-78, Jan 1956 Pariodical

1 The liquid-vapor phase equilibrium in an argon-nitrogen system was investigated at pressures of 912, 1520, 2280 and 3040 mm of mercury column (1,2; 2.0; 3.0 and 4.0 atm. abs.). Data are given on the equilibrium compositions of liquid and vapor and the corresponding temperatures for five different mixtures. The components of the equilibrium vapor were computed on the basis of the boiling point/liquid component relation. The application of the van Laar equation with coefficients the values of which were determined for four investigated pressure, is discussed. Six references: 4 USSR, 1 Germ. and 1 Eng. (1916-1955). Tables; graphs.

Institution : Electrical Engineering Inst. in. V. I. Lenin, Moscow

Submitted : May 3, 1955

Abstract

PETROVSKIY, Yu. V.

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.

B-8

Physicochemical analysts

: Referat Zhur - Khimiya, No 4, 1957, 11157 Abs Jour

: Fastovskiy V.G Petrovskiy Yu.V.

: Investigation of Liquid-Vapor Equilibrium in the System 02-Kr. Author Title

: Zh fiz khimii, 1956, 30, No 3, 589-592 (English summary) Orig Pub

By means of the previously described (RZhKhim, 1956, 42596) experimental unit and operating procedure data have been secured concerning the equilibrium composition of liquid and vapor, at different temperatures, in the Abstract :

case of five different 02-Kr mixtures. In the coordinates ln (# --absolute pressure in mm Hg), 1/T, the experimental points for each mixture fit straight lines located in intermediate positions between lines of pure components From these graphs were plotted T - φ (x) curves, where x (respectively, y) --mole \$ 02 in liquid (in vapor), at absolute pressures 2128, 2230, 3700 and 5170 m Hg (0.5, 2.0, 4.0 and 6.0 kg/cm², excess). On the basis of calculated equilibrium compositions of vapor, T - 1 (y) curves were plotted for the same pressures. Satisfactory agreement bet-

ween calculated and experimental values shows that the system under study,

Card 1/2

PETROVSKIY, Yu. V., Cand of Tech Sei — (diss) "The study of certain physicochemical and engineering problems applicable tox the technology of the production of argon and krypton." Moscow, 1957, 15 pp (Moscow Institute of Chemical Machine Building), 110 copies (KL, 29-57,91)

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FERIODICAL:	Kiblind, 1977
AGGTAAJT:	These are self-as of a general 2000 and a general 2
i śulcad Lava	1. Periodicals-Review
Oarl 1/1	

67-6-13/23

AUTHORS:

Petrovskiy, Yu.V., Candidate of Technical Sciences

A Survey of Periodicals (Fo stranitsam zhurnalov,

TITLE:

Nr 6, pp. 38-38 (USSR)

PERIODICAL:

Kislorod, 1957, Received: April 7, 1958

ABSTRACT:

Four abstracts from foreign newspapers are mentioned dealing with the following subjects: An oxygen turbocompressor (VDI Periodical, 1955, VII, 97, No 19/20, p. 614); New heat insulating material (Penouretan) (Barringer, Refrig. Eng. 1957, 4, pp. 53-6; 108; 111. 112, USA); On the application of oxygen in blast furnaces (James, Compressed Air Mag. 1957, 6, pp. 170-4), and on pumps for liquid oxygen (Missiles & Rockets, 1956, 3, pr. 35-54). There are 1 figure

and 4 non-Slavic references.

AVAILABLE:

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Card 1/1

CIA-RDP86-00513R001240620006-0" APPROVED FOR RELEASE: 06/15/2000

Petrous Kiy

AU THORS:

Petrovskiy, Yu. V.

64-8-7/19

TITLE:

Rectification Method for the Production of the Pure

Krypton (Rektifikatsionnyy sposob polucheniya chistogo

kriptona).

PERIODICAL:

Khimicheskaya Promyshlennost', 1957, Nr 8, pp. 28-32 (USSR)

ABSTRACT:

In the investigation of the conditions under which the solid phase in the oxygen-krypton-system is formed it was found that

no precipitation of the solid phase occurs at 1,5-2

atmospheric pressure. This admits the carrying out of the rectification of a rich concentrate at such a pressure and to obtain here a chemically pure krypton. Here a periodical rectification of a rich krypton concentrate (10% krypton) was carried out in the mounting-column at 2 atmospheric pressure and technically pure krypton (98-99% krypton) was obtained with 95-96% output. A scheme for an industrial plant for the rectification of a rich krypton concentrate was worked out here. This plant contains the prepurification of the concentrate from the hydrocarbon admixtures, drying and purification of the concentrate from CO2, rectification with a production of the technically pure krypton as well

Card 1/2

Rectification Method for the Production of the Pure Krypton

64-8-7/19

as a subsequent purification of the same from the oxygenand hydrocarbon admixtures in furnaces in order to obtain the pure krypton. A rectification plant for the production of a technically pure krypton was planned and built; as well as a device for the removal of oxygen and hydrocarbon admixtures and for the production of pure krypton. The plant and the device are used in a cxygen-krypton-great block which works 20,000 m³/hour. There are 6 figures, 1 table, and 10 references, 4 of which

AVAILABLE:

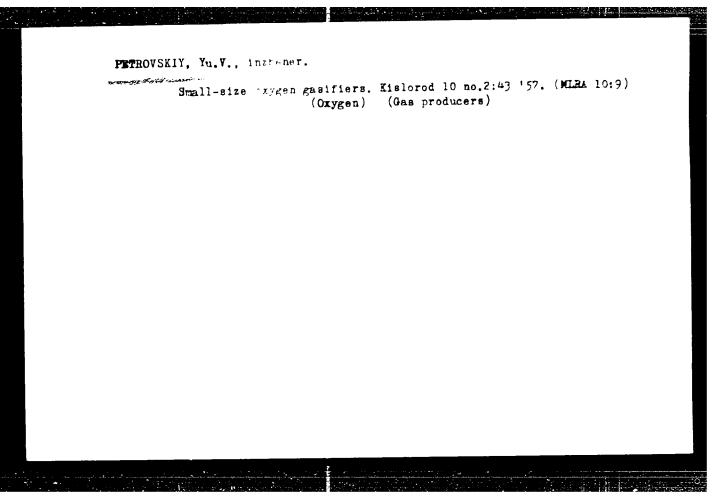
Library of Congress

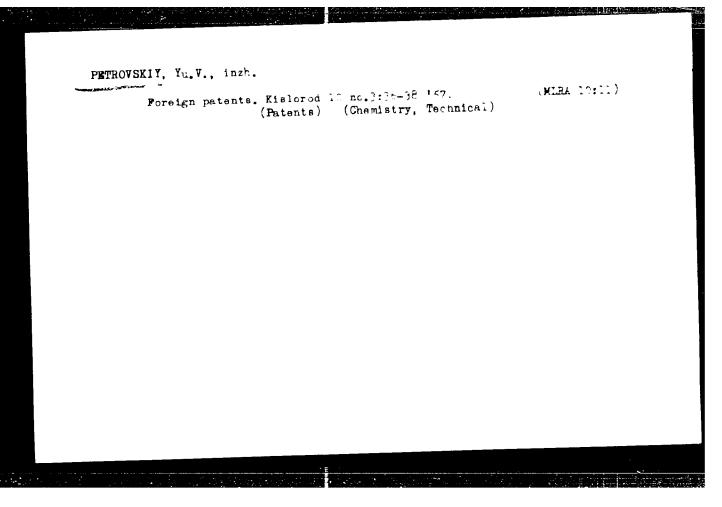
Card 2/2

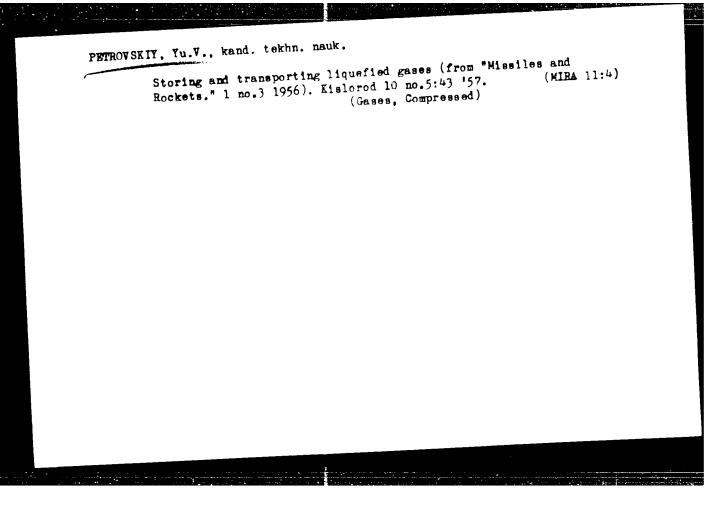
PASTOVSKIY, V.G.; PETROVSKIY, Yu.V.

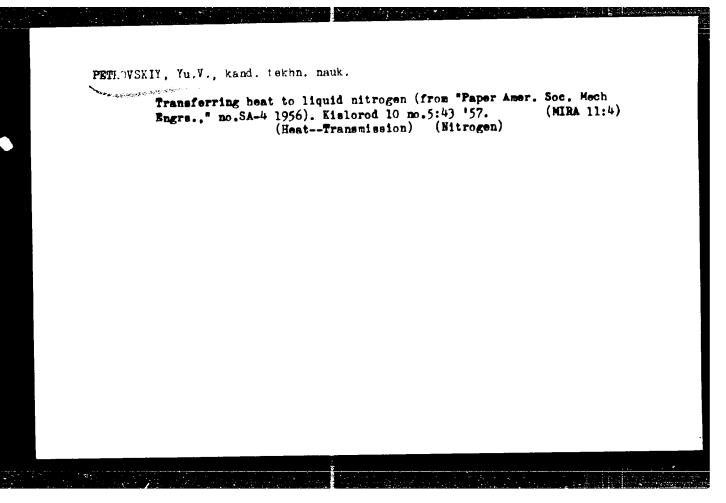
Obtaining pure krypton by distillation. Ehim. prom. sc. n: 12ct-180 (MIRA 11:2) D '57.

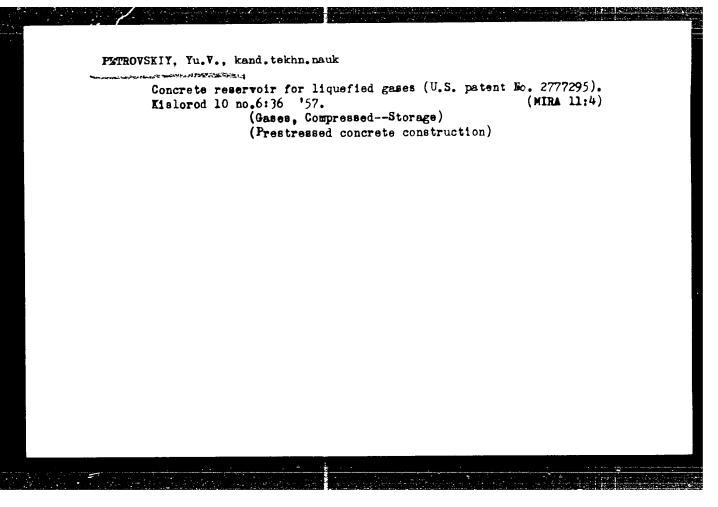
(Krypton) (Distillation apparatus)









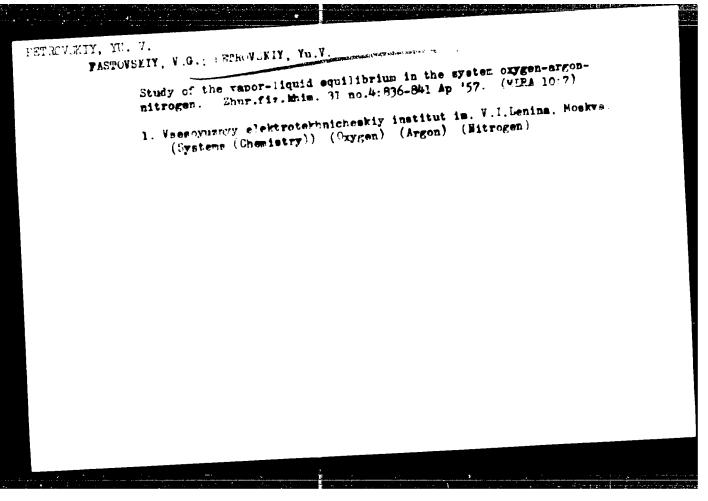


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Pumps for liquid oxygen (from "Missiles and Rocksts," 1 no.3 1956).

Kislored 10 no.6:38 "57.

(Pumping machinery)

(Oxygen)
```



PETROUSKIY, You

AUTHORS:

76-10-22/34 Pastovskiy, V. G., Petrovskiy, Yu. V.

TITLE:

A Study of the Vapor-Liquid Equilibrium in the System Nitrogen-Methane (Issledovaniye ravnovesiya zhidkosti

i para v sisteme azot-metan).

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 10,

pp. 2317-2321 (USSR)

ABSTRACT:

The phase equilibrium of liquid and vapor in the nitrogen-methane system at absolute pressures of 2, 5, 8, 11 and 16 kg/cm² was investigated. The data concerning the equilibrium compositions of liquid and wapor and the corresponding temperatures for seven different mixtures were obtained. On the strength of the boiling temperature on the liquid composition $T=\phi(x)$ found by experimental way the compositions of the equilibrium vapor computed which were compared to the experimental data. The fact that the computed data agree well with the experimental data admits the use of the van Laar equation with the coefficients which values are given for five pressures investigated. Data are given which facilitate the construction of the

CARD 1/2

PETRINORY YOV.

THASE I BOOK EXPLOITATION

1170

Vsesoyuznyy elektrotekhnicheskiy institut

- Mizkiye temperatury i redkiye gazy (Low Temperatures and Rare Gases)
 Moscow, Gosenergoizdat, 1958. 286 p. (Series: Its: Trudy, vyp. 61)
 2.260 copies printed.
- Ed. (title page): Fastovskiy, V.G.; Doctor of Technical Sciences; Ed. (inside book): Zhigarev, A.A.; Tech. Ed.: Larionov, G. Ye. Editorial Board of Series: Andrianov, K.A., Biryukov, V.G. (chief ed.), Butkevich, G.V. (deputy chief ed.); Granovskiy, V.L., Kalitvyanskiy, V.I., Timofeyev, P.V., Fastovskiy, V.G., Shemayev, A.M.
- PURPOSE: This book is intended for scientists and technicisms concerned with storing, handling, obtaining and officing atmospheric gases (especially oxygen and rare gases).
- COVERAGE: The volume is one of a series published by the All-Union Electrical Engineering Institute iment V. I. Lepin. The Collection includes main projects carried out during the period 1947-1955 by scientists and technicians of the Low-temperature Laboratory headed by Doctor of Technical Sciences, Professor Card 1/5

1170	
ow Temperatures and Rare Gases Castovskiy, V.G. and Rovinskiy, A.Ye. The Adsorption Method of Separating	67
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Total Warting and

67-1-1-/20

AUTHOR:

Petrovs my, Yu. V. . Candidate of Technical Sciences

TITLE:

Foreign Patents (Incutrannyye patenty)

PERIODIJAL:

Mislored, 1950

, Mr 1, pp. 41 - 42 (USSR)

ABSTRACT:

This article gives a description of the following patents:

1) An American patent for a plant for producing liquid oxymen, liquid nitrogen and raw argon. (Er 2 762 208).

2) A French patent of a portable device for producing liquid oxygen. (Er 1 126 478). There are 2 figures.

AVAILABLE:

Library of Congress

1. Liquid oxygen 2. Patents-USA 3. Patents-France

Card 1/1

165-**58-3-7/31**

Fastovskiy, V. G., Doctor of Technical Sciences, irofessor, AUTHORS:

Petrovskiy, Yu. V., Candidate of Technical Sciences

On the Possibilities of Intensifying the Cooling of Turbo-TITLE:

generators (O vozmozhnosti intensifikatsii okhlazhdeniya

turbogeneratorov)

Elektrichestvo, 1000, Nr 3, pp. 32 - 35 (USSR) PERIODICAL:

First a survey is given on the possible ways of intensifying the cooling of turiogenerators, then the problem of ABSTRACT:

the usefulness of an artificial hydrogen cooling (Ref 4) is investigated. Of the two possible aims pursued by such a cooling that one is more interesting which offers the possibility of increasing its output in obtaining the measurements of the effective parts. This aim is investigated here also in application to a 200 MW turbogenerator. The hydrogen cooling types possible for a cooling to 0°C are dealt with here: the application of a compression (vapor)

cooling plant, of an absorption cooling device, and of a

turbodetander (?). It is shown that from the standpoint of Card 1/2

CIA-RDP86-00513R001240620006-0" APPROVED FOR RELEASE: 06/15/2000

105-58-3-7/31

On the Possibilities of Intensifying the Cooling of Turbogenerators

economy of the output adjusted, the absorption cooling plant does not offer any advantages in comparison to the compression plant. A certain advantage of the former is the lacking of a machine-outfit, the dimensions of the absorption cooling plant are, however, considerably greater. The temperature drop can be obtained by the expansion of the gaseous hydrogen in the turbodetander after previous compression. Comprisingly it is said that a liquid cooling is the most favorable one, i.e. in the first place the cooling of the stator winding and then of the rotor, An artificial hydrogen cooling with the aid of cooling plants requires, however, great capital investments and operation expenditures and can be expedient only in individual cases. There are 6 references, 3 of which are Soviet.

ASSOCIATION:

Vsesoyuznyy elektrotekhnicheskiy institut imeni Lenina (All-Union Institute of Electrical Engineering imeni Lenin)

SUBMITTED:

April 1, 1957

Card 2/2

AUTHOR: Petrovakiy, Iu. V., Candidate of Technical SCV/57-58-4-40 2-

Sciences

TITLE: Foreign Patents (Inostranny)e patenty)

PERIODICAL: Kislorod, 1958. Nr 4, pp. 38-39 (USSR)

ABSTRACT: In this article two American patents are described: One of them

concerns a container for liquid oxygen, which is manufactured by the firm of Strong & Bundi, the other concerns a device for the production of technical oxygen, which is provided with the recuperator-heat-exchangers. This device is being manufactured

by the firm of G. T. Skaperdas. There are 2 figures.

Card 1/1 1. Oxygen--Production 2. Oxygen (Liquid)--Production

3. Industrial equipment-USA 4. Patents-USA

AUTHOR: Petrovskiy. Yu. V., Candidate of Technica: SCV 58 58 57 5

Sciences

TITLE: Tembenoies in the Development of Large Flants Producing

IndustrialOxygen (Tendentsii v razvitii moshohnyku us ar vos

tekhnicheskogo kisloroda)

PERIODICAL: Kislerod, 1950 J. Ar 4, pp. 35-36 (USSR)

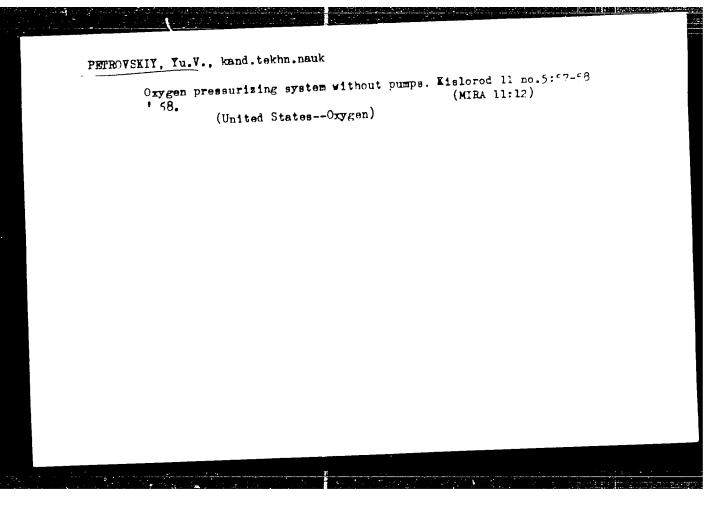
ABSTRACT: The following tendencies are especially mentioned: The endeavor

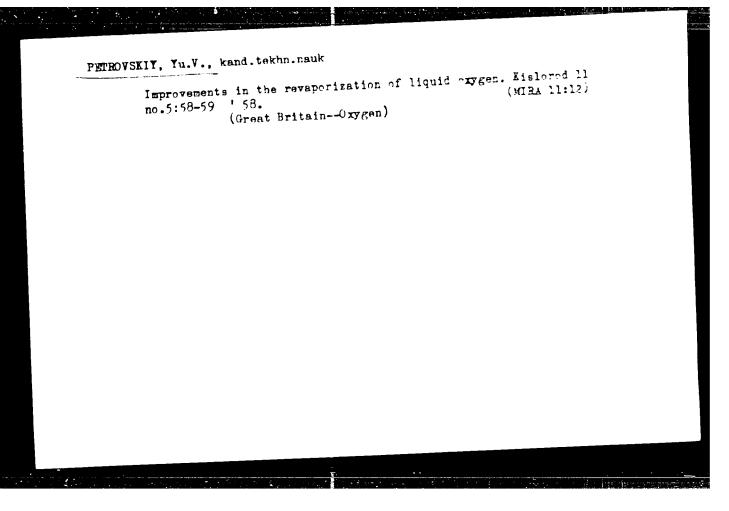
is made to build exygen plants with as little capital investment as possible, and to make these plants adaptable to the fluctuating exygen consumption in factories. As models, the oxyger plant "Reskol", which is of English production, and the American plant for the production of 3150 nm³/h (purity of oxygen 99.5%) armentioned as ranging first and second respectively. Both plants are described on the basis of a schematical drawing. There are

2 tivires. To be use a figures and a reference qu

Card 1/1 1. Oxygen--Production 2. Industrial plants--Economic

aspects 3. Industrial plants-Operation





PETROVSKIY, Tu.V., kand.tekhn.nauk

Low-temperature expansion turbines (from "Brit.Shen.Engn." no.3, 1957),

Kielorod 11 no.5:60 '58.

(Refrigeration and refrigerating machinery)

(Refrigeration and refrigerating machinery)

PETROVSKIY, Yu.V., kand.tekhn.nauk

Liquid nitrogen plunger pump operating at 700 atm. (from "Industr.and industr.and industr.

PETROVSKIY, Yu.V., kand.tekhn.nauk

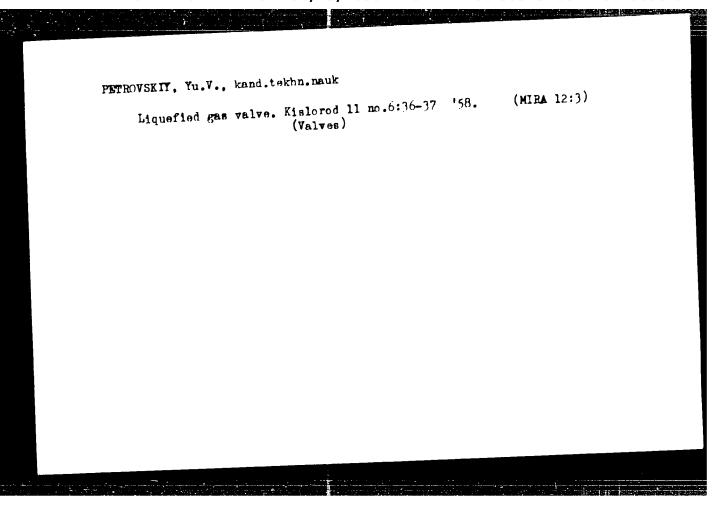
Air separation apparatus. Eislored 11 no.6:35 *58. (HIRA 12:3)
(Oxygen) (Chenical engineering--Equipment and supplies)

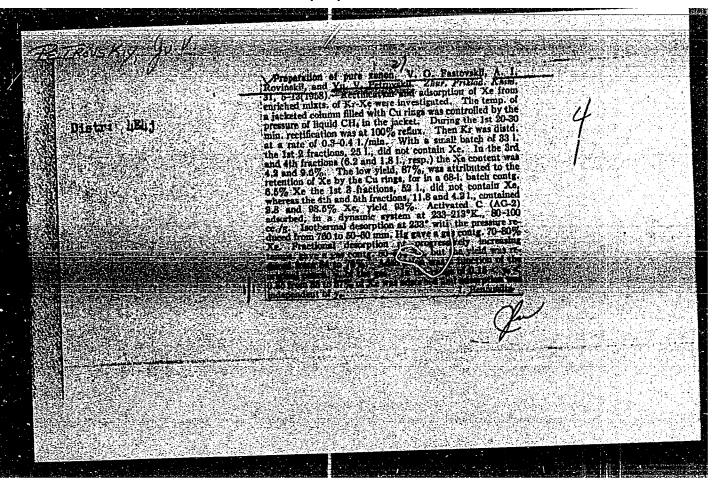
PETRIVSEIY, Yu.V., kand.tekhn.nauk

Submersible pump for liquid oxygen. Kielorod 11 no.6:36 '58.

(HIRA 12:3)

(Refrigeration and refrigerating machinery)





10(4) AUTHORS:

Fastovskiy, V. G., Petrovskiy, Yu. V., SOV/64-59-2-15,23

《大学》, 1985年 - 1985年

Akchurin, R. A.

TITLE:

Investigations of the Resistance and Efficiency of a Contact-plate Utilizing the Kinetic Energy of the Light Phase (Issledovaniye soprotivleniya i effektivnosti

deystviya kontaktnoy tarelki, ispol'zuyushchey

kineticheskuyu energiyu legkoy fazy)

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 2, pp 169-174 (USSR)

ABSTRACT:

No constructional and individual data are available on the contact-plates devised by V. Kittel (Ref 1) which operate according to the principle of the utilization of kinetic energy of the rising light phase for a more intense mixing. In the present case contact-plates were constructed by employing the same principle. The plates were made of 0.5 mm steel plates with a certain arrangement of elliptic openings (Figs 1, 2). The total surface of the openings is 27% of the surface of the plate. Two types of plates were produced which are used in pairs. In one plate the liquid flows from the middle to the periphery, in the second

Card 1/2

. Investigations of the Resistance and Efficiency of a SCV/64-59-2-15/23 Contact-plate Utilizing the Kinetic Energy of the Light Phase

it flows reversely. Two pairs of plates were tested on a test plant (Fig 3). Oxygen was desorbed from water (at an air current velocity of 1710-5000 kg/m²/hour, wetting density of 18800-40300 kg/m²/hour, and water temperature of 10°) and carbon dioxide from water (1855-4950 kg/m²/hour, 25500-42250 kg/m²/hour and 11°). The resistance of the plates described is lower by 2-3 times than that of perforated or bubble plates. The optimum velocity of the gas flow (at the above-mentioned wetting densities) is 0.9-1.0 m/sec. Under the afore-mentioned conditions a value $\rm E_{ML} = 0.82\text{--}0.88$ for the

degree of efficiency according to Merfri with respect to the change in the liquid composition was found. Compared to the perforated and bubble plates the efficiency of the contact-plates described is higher, the resistance is lower and the degree of efficiency under optimum condition is equal. There are 9 figures and 13 references. 3 of which are Soviet.

Card 2/2

SCV/67-59-3-16/27

AUTHOR: Petrovskiy, Yu. V., Candidate of Technical Sciences

TITLE: Air Separating Apparatus for the Production of Oxygen With

Increased Pressure (Vozdukhorazdelitel'naya ustanovka dlya

polucheniya kisloroda pod povyshennym davleniyem)

PERIODICAL: Kislorod, 1959, Nr 3, pp 49 - 50 (USSR)

ABSTRACT: Under this title the British patent Nr 784590 "Improvements in or Relating to the Cold Separation of Air" by P.M. Schuftan,

and A. D. Littlewood is briefly dealt with by the abstracter

mentioned above as the author. There is 1 figure.

Card 1/1

sov/67-59-4-17/19 5(1)

Petrovskiy, Yu. V., Candidate of Technical Sciences AUTHOR:

Foreign Patents TITLE:

Kislorod, 1959, Nr 4, p 52 (USSR) PERIODICAL:

6.

This is an abstract from the French patent Nr 1139087 concern-ABSTRACT:

ing the purification of noble gases of oxygen by means of iron

oxide. There is 1 figure.

Card 1/1

14 (1) UTHOR: Petroviki,, Yu. V., Canditate of

307,67-59-1-16

Technical Sciences

TITLE:

1) New Fields of Applie tion for Products of Air Frantishating

2) Solders for Low-temperature Service

FERIODICAL:

Kislored, 1)59, Nr 6, p 64 (USSR)

AB TRACT:

ad 1): A brief report is given on the article by D. Parin "Criongenics Big Market for Aluminium" from Modern Motils, 1958, Vol 14, Nr 7, Pt 54 - 58 and 60 - 61 concerning rollvidual fields of application of air fractionating prod eta in the USA, ad 2): A brief report is given on the article by A. B. Kaufmann "Selecting Solders for Low-Temperature Socrete" from Materials in Design Engineering 1958, Vol 48, Nr 6, pp 114-115 with respect to some solvers which may be used for lo .- temperature service.

Card 1/1

CIA-RDP86-00513R001240620006-0" APPROVED FOR RELEASE: 06/15/2000

FASTOVSKIY, V.G., doktor tekhn.nauk; PETROVSKIY, Yu.V., kand.tekhn.

nauk

Heat transfer and resistance to air flow in a package of sheets
with semispherical projections [with summary in English].

Teploenergetika 6 no.1:65-68 Ja '59. (MIRA 12:1)

1. Vaesoyuznyy elektrotekhnicheskiy institut.

(Heat exchangers--Aerodynamics)

PETROVSKIV. Yu.V., kand. tekhn. nauk

Air separation apparatus with a dephlegmator. Kislored 12 ne.1:45-46

159. (MIRA 12:6)

PETROVSKIY, Yu.V., kand. tekhn. nauk

Air separation apparatus with an additional nitrogen cycle.

Kislored 12 no.1:46-47 '59. (MIRA 12:6)

(Liquid air) (Oxygen) (Nitrogen)

PETROVSKIY, Yu.V., kand, tekhn. nauk

Oxygen apparatus with deep freezing of a part of the air before its compression. Kislored 12 no.1:47-48 '59. (MIRA 12:6)

(Liquid air) (Oxygen)

PETROVSKIY, Yu.V., kand. tekhn. nauk

Improving the effectiveness of apparatus for the lew temperature separation of gas mixtures by the leep-freeze methods (from "Trane. Instn. Chem.Engre," 3c, No. 3, 1958). Kislored 12 no.1:51 '59. (MIRA 12:6)

AUTHOR:

Petrovskiy, Yu. V., Candidate of

SOV/67-59-2-15, 18

Technical Sciences

TITLE:

Foreign latents (Inostrannyye patenty).

(1) Air-fractionating Apparatus (Vozdukhorazdelitel'naya ustanovka). (2) Container for Liquefied Gases (Rezervuar

dlya szhizhennykh gazov)

PERIODICAL:

Kislorod, 1959, Nr 2, p 53 (USSR)

ABSTRACT:

This short abstract deals with the two British patents Nr 786296/(1) (Improvements in or Relating to Low-temperature Separation of Air, Schuftan, P. M., November 13, 1957) and Nr 796450/(2) (Apparatus for the Storage of Liquefied Gases,

Monroe, A. G., June 11, 1958). There are 2 figures.

Carl 1/1

PETROVSEIY, Yu.V., kand. tekhn. nauk

Storage vessels for liquefied gases (British patent No.801328).

Kislorod 12 no.5:57 '59. (MIRA 13:2)

(Great Britain--Liquefied gases)

69204

s/096/60/000/06/015/025 E194/E284

24,5200

Card 1/2

Fastovskiy, V. G., Doctor of Technical Sciences and Patrovskiy, Yu. V., Candidate of Technical Sciences AUTHORS:

Heat Transfer and Resistance of Bundles of Tubes with Continuous Spiral Ribbing in Square Arrangement

TITLE: Teploenergetika, 1960, Nr 6, pp 69-72 (USSR)

ABSTRACT: Since the manufacture of tubes with continuous spiral ribbing was developed by TsNIITMASh they have come to be used in heat exchangers. A study was made of the heat transfer and resistance of bundles of aluminium and copper tubes in square arrangement using the experimental equipment and procedure described in an article by the same authors in Teploenergetika, 1959, Nr 1. In the tests steam was passed through the tubes and air blown over the outside. The main cooler design data and experimental results are tabulated and the empirical formula (1) is recommended to represent the experimental results. The aluminium tubes gave a 10% higher heat transfer coefficient than the copper tubes apparently because they were more freely spaced in the bundle and the relative height of ribbing is less. The

0.004/61/2020/2020/2020 retrovskiy, fu. V., Fastovskiy, V. G., Royzen, I] aUTHURS: Use of finned pipes in crosscurrent exchangers with opins. IIT_E: rERIODICAL. Knimicheskaya promyshlennost', no. 9, 1961, 58 - 63 TEXT: The present paper deals with heat exchange, nydraulic resistance and efficiency of finned pipes in heat exchangers used for air fractionation. The authors used tempered copper pipes, $\delta = 1 - m \mu$ in diameter, with transverse fins arranged in spirals, which were obtained by plastic deformation by means of rolling. Rolling rate. 1; - . m, hr; ... length: $2 \sim m$; inside diameter d_i : 4.7 mm; diameter of fin basis \cdots :; outside fin diameter: D=10.7 mm; mean fin thickness: $\delta=0.45$ mm; f.: height: h = 2.3 nm; number of fins per meter: 62); fin spacing t = specific external pipe surface: $F = 0.0965 \text{ m}^2/\text{m}$; coefficient for calculating the surface of the finned pipe: $\mathbf{q} = \mathbf{F}/\mathbf{F}$ (sm.p. specific surface of smooth pipe, diameter = 0.1 mm); weight of file W=0.215~kg/m The tempered pipe can be wound round a $4.5~-0.0~m_\odot$ Uard 1,5

Use of finned pipes in

S/ 364/61/ 337 // B113/B131

diameter core and serves for high-pressure heat exchangers (1969, 1998, 2008) (admissible internal excess pressure = 400 kg/cm²). The pipes . Acre wound round a brass pipe core (1) (Fig. 2) with an outside diameter of 1.0 mm, in four layer, without space linings. The sense of winding alternated. Number of turns in the direction of the air current of the layer; interstice ≈11.2 mm; space between fin edges: 0.5 mm. they are covered with felt (7 and coated with a 1 mm Cu foil (4). Four Follows surfaces provide good air distribution. The neat exchanger is the its outside diameter is 19 cm. The total length of pipes in 46 1 m. total external surface 4.40 m 2 . A nigh-pressure fan (1) (Fig. 4) and an electric heater (2) are used for pumping air into the heat exchanger (5) from which cooled air is conducted through a pipe (4) (100 mm in diameter) with a diaphragm (1), a differential pressure gauge (0), and a simple water gauge (7) for measuring air consumption. A centrifugal pump (y. serves for sumping cold water through an intermediate vessel (8) into vessel (4) and warm water into measuring vessel (10). (11) and (12) are differentia. water gauges. (11) indicates the drop in pressure of the air passing throat. (3), (12) indicates the pressure difference between inlet and outlet place. of (!). Inlet and outlet temperatures were measured by the conjur-

Card 2/5